

OHIO AGRICULTURAL EXPERIMENT STATION
Vegetable Crops Substation, Marietta, Ohio

Department of Horticulture Mimeograph No. 173
January 28, 1959

EARLY CABBAGE VARIETY TRIALS-1958

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Five new varieties of cabbage, Earliana, Early Marvel, Earlihead, and Viking Small Early were evaluated in the 1958 trials. These were compared with six other varieties or strains of varieties for their suitability as early fresh market cabbage. The results are shown in the attached table.

CULTURAL INFORMATION

Seed Sown: February 2 in sash house ground beds and plants field set April 4.

Fertilizer: 1100 lbs./A. of 12-3-12 plus 5 lbs./A. of Boron broadcast and disced in after plowing. Two side dressings of 100 lbs./A. of ammonium nitrate, one applied two weeks after field setting and the second 3 weeks after the first.

Starter Solution: 10 lbs. of ammonium nitrate per 50 gals. of water at rate of $\frac{1}{2}$ pint per plant in transplanting water.

Spacing: Rows 36" apart, plants 12-14 inches in row, approximately 35 plants per single row plot of 42' randomized and replicated six times.

Date of first harvest: June 12, 1958.

SOURCES OF SEED

<u>Symbol</u>	<u>Source</u>
A1	Abbott and Cobb, Philadelphia 24, Pa.
B1	W. A. Atlee Burpee Co.
H1	Joseph Harris Co., Rochester 11, N.Y.
R1	Robson Quality Seeds, Inc., Hall, N.Y.
S1	Stokes-Seeds, Ltd., St. Catherines, Ontario, Canada

GENERAL COMMENTS

Of the five new varieties, Earliana and Early Marvel showed considerable promise because of their earliness, small head size and uniformity.

Earliana was 2-3 days earlier than CC Cross hybrid which has been consistently 3-5 days earlier than Golden Acre, the main variety in the area. Earliana has good color and quality with exceptional uniformity of head size and maturity. Its holding ability may be less than desired but appeared satisfactory under 1958 conditions.

Early Marvel matured with CC Cross Hybrid and appeared to equal the latter in maturity. Head size of Early Marvel was the same as that of CC Cross but showed a slightly greater range in size. Head shape was more nearly globe than that of CC Cross and had darker green outer leaves.

Earlihead matured with Golden Acre Special but lacked sufficient uniformity of head shape and maturity to surpass the standard Golden Acre strains. It is very similar to Golden Acre in type with a finer internal texture and smaller core.

Viking Small Early appeared quite promising in the field prior to harvest but head size slightly larger than desired at harvest. It could possibly have been harvested earlier as it appeared to have good holding qualities.

Viking Golden Acre was later than Golden Acre standards with larger more loose heads.

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Variety and Lot Number		Source	Number of Days to First Harvest	Yield per Acre	Average Head Weight	Firm Heads Harvested	Polar Diameter	Equatorial Diameter	Shape Index (Polar/equatorial)	Shape of Head	Length of Core	Plant Diameter	Height of Stem	General Uniformity (1-5)	Uniformity of Maturity	Solidity (1-5)	Remarks
				Tons	Lbs.	%	In.	In.			In.	In.					
1. Golden Acre Special	1562	H1	70	17.4	3.3	90.9	6.5	6.4	1.02	Globe	3.2	21.0	S	5	5	5	Exc. unif. of size, shape & maturity Head size larger than G. A. Special. Good unif. and small head size Small compact plant, unif. head size and shape
2. Golden Acre Y.R.	1586	H1	72	19.2	3.5	94.9	6.6	6.6	1.00	Globe	3.9	22.0	S	4	4	5	
3. Badger Market Y.R.	1640	H1	74	14.8	3.3	80.7	5.8	6.0	.97	Globe	2.5	21.2	S	4	5	5	
4. Early Marvel	58	S1	67	16.1	3.0	93.5	6.0	6.1	.98	Globe	2.9	20.6	S	5	5	5	
5. Earlihead	55	S1	70	19.3	3.7	90.4	6.5	6.5	1.00	Globe	2.8	22.1	S	3	2	5	Lacks unif. in shape and maturity. Later than G.A. types, larger head size Sl. variation in type, large head size Extrem. Unif. Size, shape, mat.; sm. heads
6. Viking Golden Acre	56	S1	76	22.2	4.1	99.0	7.6	7.4	1.03	Globe	5.2	22.0	M	3	3	4	
7. Viking Small Early	57	S1	70	18.9	3.6	94.4	6.6	6.5	1.02	Globe	2.4	22.2	S	4	3	5	
8. CC Cross Hybrid	2516-1	R1	67	15.7	3.0	93.8	6.3	6.0	1.05	Globe	2.6	21.2	S	5	5	5	
9. Golden Acre Select	195	A1	69	17.5	3.3	94.8	6.3	6.5	.97	Globe	2.9	21.7	S	3	3	4	Slight variation in head shape & mat. Very early, small head size, promising
10. Earliana	--	B1	65	16.2	3.0	93.9	5.9	6.1	.97	Globe	3.2	20.7	S	4	5	4	
L.S.D. @ 5% level				0.4													